## *Appendix A: Sample Postscript Code without Correction*

```
%!PS
% Rectangles before anti-bottling artifacts treatment

true setoverprint

%item 1
% Three adjacent rectangles set down in arbitrary order
% .0 color value is considered transparent

.1 .2 .3 .4 setcmykcolor
100 100 100 100 rectfill

.0 .1 .2 .3 setcmykcolor
100 200 100 100 rectfill

.0 .0 .1 .2 setcmykcolor
100 300 100 100 rectfill

%item 2
% Two adjacent rectangles set down in arbitrary order
% .0 color value is considered transparent

.0 .1 .2 .3 setcmykcolor
300 100 4 4 rectfill

.1 .0 .2 .3 setcmykcolor
300 104 4 4 rectfill

showpage
```

## *Appendix B: Sample Postscript Code with Correction*

```
%!PS
% Rectangles after anti-bottling artifacts treatment

% item 0
% Calculation of 1 device space pixel (= 1 output pixel)
/OneDevicePixWidth 1 1 idtransform pop def
/OneDevicePixHeight 1 1 idtransform exch pop def

true setoverprint

% item 1
% The three adjacent rectangles set down by the pre-defined order
% and extended on all four sides by one output pixel
% .0 color value is considered transparent

.0 .0 .1 .2 setcmykcolor
100 OneDevicePixWidth sub 300 OneDevicePixHeight sub
100 OneDevicePixWidth add 100 OneDevicePixHeight add rectfill

.0 .1 .2 .3 setcmykcolor
100 OneDevicePixWidth sub 200 OneDevicePixHeight sub
100 OneDevicePixWidth add 100 OneDevicePixHeight add rectfill

.1 .2 .3 .4 setcmykcolor
100 OneDevicePixWidth sub 100 OneDevicePixHeight sub
100 OneDevicePixWidth add 100 OneDevicePixHeight add rectfill
```

% item 2

% The two rectangles after adjacent edges split into 1x1 rectangles

% and the two cores extended on all four sides by one output pixel

% .0 color value is considered transparent

% rectangle 1

.0 .1 .2 .3 setcmykcolor

300 OneDevicePixWidth sub 100 OneDevicePixHeight sub

4 OneDevicePixWidth add 4 rectfill

300 OneDevicePixWidth sub 104 OneDevicePixHeight sub

OneDevicePixWidth OneDevicePixHeight rectfill

301 OneDevicePixWidth sub 104 OneDevicePixHeight sub

OneDevicePixWidth OneDevicePixHeight rectfill

302 OneDevicePixWidth sub 104 OneDevicePixHeight sub

OneDevicePixWidth OneDevicePixHeight rectfill

303 OneDevicePixWidth sub 104 OneDevicePixHeight sub

OneDevicePixWidth OneDevicePixHeight rectfill

304 OneDevicePixWidth sub 104 OneDevicePixHeight sub

OneDevicePixWidth OneDevicePixHeight rectfill

% rectangle 2

.1 .0 .2 .3 setcmykcolor

300 OneDevicePixWidth sub 104

4 OneDevicePixWidth add 4 OneDevicePixHeight add rectfill

300 OneDevicePixWidth sub 104

OneDevicePixWidth OneDevicePixHeight rectfill

```
301 OneDevicePixWidth sub 104
OneDevicePixWidth OneDevicePixHeight rectfill

302 OneDevicePixWidth sub 104
OneDevicePixWidth OneDevicePixHeight rectfill

303 OneDevicePixWidth sub 104
OneDevicePixWidth OneDevicePixHeight rectfill

304 OneDevicePixWidth sub 104
OneDevicePixWidth OneDevicePixHeight rectfill

showpage
```